



<http://isapp2012paris.sciencesconf.org/>

## First circular - 22 December 2011

Every year, the ISAPP European network\* organises schools addressed first to doctorate students -experimentalists, observers and theorists- in the astroparticle domain.

The present school will be held in Paris, from 2 to 13 July 2012, and is dedicated to the multi-messenger approaches in high energy astrophysics, a subject of particular relevance this year of the centenary of the discovery of cosmic rays: cosmic-ray and gamma-ray astrophysics are now reaching maturity, while gravitational and neutrino astronomy are getting close to actual measurements. The goal of the school is to offer a complete perspective to students who are often involved in only one aspect.

Introductory courses will set the scene at the edges between particle physics and astrophysics, while main lectures will review the high energy processes in the Universe on both observational and theoretical aspects. The challenges to detect neutrinos, cosmic-rays, gamma-rays and gravitational waves will be addressed through lectures illustrated with recent astrophysical results.

The program will be completed by a prospective outlook of the domain, and a review of the situation regarding the Dark Universe.

The schedule is organized with time slots devoted to interactions between students and teachers. Participants are encouraged to bring posters presenting their research work. Sessions will be organised for the posters to be presented.

The School is open to PhD students and post-docs working in the field of high energy astrophysics and particle physics. A letter from each registrant's advisor is mandatory to finalize the registration process.

The School will be held at the APC laboratory, 10, rue Alice Domon et Léonie Duquet, 75205 Paris Cedex 13.

**Pre-registration will be open from January 9<sup>th</sup> to April 9<sup>th</sup>, 2012.**

The attendance being limited to 60, a selection of participants will be made at the end of the pre-registration period. Final acceptance will be given by **April 20<sup>th</sup>, 2012.**

More updated information at <http://isapp2012paris.sciencesconf.org/>

\* ISAPP is a network of 33 European doctorate schools and institutes from nine European Union countries plus Russia and Israel. ISAPP's main goal is to create a real astroparticle community amalgamating the elementary particle and astrophysics communities. To this purpose exchanges between students and lecturers are promoted as far as common doctorate theses; in addition every year two to three events are organized, normally two schools and sometimes also a summer institute. More information can be found on the ISAPP web site (<http://www.mi.infn.it/ISAPP/>).